According to another related invention, compounds of the formula X₅-Leu-Asp-X₇-SEQ ID NO:22-X₆, wherein SEQ ID NO:22 is the sequence Asn-Ala-Glu-Val-Tyr, and pharmaceutical compositions thereof are provided wherein

 X_5 is from zero to twelve amino acids, more preferably from zero to six amino acids, most preferably from zero to three amino acids;

 X_6 is from zero to twelve amino acids, more preferably from zero to six amino acids, most preferably from zero to three amino acids; and

X₇ is Ala or Cys.

Page 11, delete the paragraph spanning lines 29-33 and inset the following substitute paragraph:

"D3 peptide" means a peptide of the formula (a) X_1 -SEQ ID NO:1- X_2 , (b) X_3 -SEQ ID NO:5- X_4 , (c) X_5 -Leu-Asp- X_7 -SEQ ID NO:22- X_6 were X_1 , X_2 , X_3 , X_4 , X_5 , X_6 and X_7 are defined above, or (d) peptide fragment (or analog thereof) of HK domain 3 which is active in inhibiting endothelial cell proliferation and/or inhibiting angiogenesis.

In the Sequence Listing:

Cancel the Sequence Listing and insert the substitute Sequence Listing submitted herewith in paper and electronic form.

In the Claims:

Cancel claims 9, 10 and 11 without prejudice.

Rewrite claims 1, 3-8, 12-15, 17-21, 23, 27, 29-32, 34-38, 40-43 and 45 to read as follows.

1. (amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of the formula X_1 -SEQ ID NO:1- X_2 wherein

 X_1 is from zero to twelve amino acids, and X_2 is from zero to twelve amino acids,

3. (amended) The composition of claim 1 wherein

27

C1 A3

3.
PHIP\300806\1

X

 X_1 is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:2 or N-terminal truncation fragment thereof containing at least one amino acid, and

 X_2 is

- (i) zero amino acids, or
- (ii) the segment SEQID NO:3, or C-terminal truncation fragment thereof containing at least one amino acid.
- 4. (amended) The composition of claim 1 wherein the compound has substantial amino acid sequence homology to the amino acid sequence SEQ ID NO:4.
- 5. (amended) The composition of claim 1 wherein the compound has the amino acid sequence SEQ ID NO:1.
- 6. (amended) The composition of claim 1 wherein the compound has the amino acid sequence SEQ ID NO:9.
- 7. (amended) The composition of claim 1 wherein the compound has the amino acid sequence SEQ ID NO:10.
- 8 (amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of the amino acid sequence SEQ ID NO:5 or SEQ ID NO:11 wherein an internal disulfide bond between the cysteine residues of said compound is optionally present, and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

12. (amended) The composition of claim 8 wherein the compound has the amino acid sequence SEQ ID NO:5.

AS

- 13. (amended) The composition of claim 8 wherein the compound has the amino acid sequence SEQ ID NO:11.
- 14. (amended) The composition of any of claims 8, 12 or 13 wherein a disulfide bond between the cysteine residues of the compound is present.

15. (amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of the formula X₅-Leu-Asp-X₇-SEQ ID NO:22-X₆ wherein

X₅ is from zero to twelve amino acids,

X₆ is from zero to twelve amino acids, and

X₇ is Ala or Cys,

and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

17. (amended) The composition of claim 15 wherein

X₅ is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:13, or N-terminal truncation fragment thereof containing at least one amino acid, and

X₆ is

- (i) zero amino àcids, or
- (ii) the segment SEQ ID NO:14, or C-terminal truncation fragment thereof containing at least one amino acid.
- 18. (amended) The composition of claim 15 wherein the compound has substantial amino acid sequence homology to the amino acid sequence SEQ ID NO:17.
 - 19. (amended) The composition of claim 15 wherein the compound has the amino acid

X

1

sequence SEQ ID NO:12.

20. (amended) The composition of claim 15 wherein the compound has the amino acid sequence SEQ ID NO;15.

21. (amended) The composition of claim 15 wherein the compound has the amino acid sequence SEQ ID NO:16.

A7

23. (amended) The composition according to claim 22 wherein the peptide fragment or analog has the amino acid sequence SEQ ID NO:19 or SEQ ID NO:20.

27. (amended) A method of inhibiting endothelial cell proliferation comprising contacting endothelial cells with a compound of the formula X_1 -SEQ ID NO:1- X_2 wherein

A8

X1 is from zero to twelve amino acids, and

X₂ is from zero to twelve amino acids,

and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

29. (amended) The method of claim 27 wherein

 X_1 is

(i) zero amino acids, or

(ii) the segment SEQ ID NO:2, or N-terminal truncation fragment thereof containing at least one amino acid, and

X₂ is

(i) zero amino acids, or

(ii) the segment SEO ID NO:3, or C-terminal truncation fragment thereof containing at least one amino acid.

X

- 5 -

- 30. (amended) The method of claim 27 wherein the compound has the amino acid sequence SEQ ID NO:9.
- 31. (amended) The method of claim 27 wherein the compound has the amino acid sequence SEQ ID NO:10.
- 32. (amended) A method of inhibiting endothelial cell proliferation comprising contacting endothelial cells with a compound of the formula X₃-SEQ ID NO:5-X₄ wherein

X₃ is from zero to twelve amino acids, and

X4 is from zero to twelve amino acids,

wherein a disulfide bond between the cysteine residues of the segment SEQ ID NO:5 is optionally present, and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

34. (amended) The method of claim 32 wherein

X₃ is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:6, or N-terminal truncation fragment thereof containing at least one amino acid, and

X₄ is

- (i) zero amino acids, or
- (ii) the segment SEQ\ID NO:7, or C-terminal truncation fragment thereof containing at least one amino acid.
- 35. (amended) The method of claim \$2 wherein the compound has the amino acid sequence SEQ ID NO:5.

Ald

- 36. (amended) The method of claim 32 wherein the compound has the amino acid sequence SEQ ID NO:11.
- 37. (amended) The method of any of claims 32-36 wherein a disulfide bond between the cysteine residues of the segment SEQ ID NO:5 of said compound is present.
- 38. (amended) A method of inhibiting endothelial cell proliferation comprising contacting endothelial cells with a compound of the formula X₅-Leu-Asp-X₇-SEQ ID NO:22-X₆ wherein

X₅ is from zero to twelve amino acids,

X₆ is from zero to twelve amino acids, and

X₇ is Ala or Cys.

and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

40. (amended) The method of claim 38 wherein

 X_5 is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:13, or N-terminal truncation fragment thereof containing at least one amino-acid, and

X₆ is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:14, or C-terminal truncation fragment thereof containing at least one amino acid.
- 41. (amended) The method of claim 38 wherein the compound has the amino acid

A11

 \bigvee